

CONTROL NO.
1699529150 CHESAPEAKE DRIVE, SAN DIEGO, CA 92123-1096
(619) 694-3307 FAX (619) 694-2730PERMIT NO.
900245EXPIRES
FEBRUARY 1, 2001**PERMIT TO OPERATE**

THIS PERMIT IS NOT VALID UNTIL REQUIRED FEES ARE RECEIVED BY THE DISTRICT.

THE FOLLOWING IS HEREBY GRANTED A PERMIT TO OPERATE THE ARTICLE, MACHINE, EQUIPMENT OR CONTRIVANCE DESCRIBED BELOW. THIS PERMIT IS NOT TRANSFERABLE TO A NEW OWNER NOR IS IT VALID FOR OPERATION OF THE EQUIPMENT AT ANOTHER LOCATION, EXCEPT AS SPECIFIED. THIS PERMIT TO OPERATE OR A COPY MUST BE POSTED ON OR WITHIN 25 FEET OF THE EQUIPMENT, OR READILY AVAILABLE ON THE OPERATING PREMISES.

SD CO OF PUB WKS
LINDQUIST BILL
5555 OVERLAND AV MS 0383
SAN DIEGO CA 92123-0000

EQUIPMENT ADDRESS

SD CO OF PUB WKS SAN MARCOS LANDFILL
SAN MARCOS LANDFILL
SAN MARCOS CA 92069-0000

EQUIPMENT DESCRIPTION

AN INACTIVE LANDFILL CONTAINING APPROX. 12.9 MILLION TONS OF MUNICIPAL REFUSE ON 200 ACRES WITH A MAXIMUM ELEVATION OF 805 FT ABOVE SEA LEVEL, AND ASSOC LANDFILL GAS COLLECTION AND CONTROL SYSTEM CONSISTING OF: LANDFILL GAS (LFG) COLLECTION WELLS WITH ASSOCIATED FITTINGS, PIPING AND INDIVIDUAL WELL SHUT OFF VALVES; OFFSITE LFG MIGRATION PROBES WITH ASSOCIATED FITTINGS AND SAMPLING PORTS; 3 LFG BLOWERS WITH ASSOC FITTINGS, VALVES AND PIPING; ONE FLAME ARRESTOR FOR EACH FLARE; ONE LIQUID KNOCKOUT VESSEL FOR ENTIRE SYSTEM; TWO ENCLOSED GROUND FLARES, BOTH EQUIPPED WITH OPTICAL FLAME DETECTORS, AUTOMATIC SHUTOFF VALVES AND AUXILIARY FUEL; ONE PRIMARY FLARE (APPROX 11 FT 4 IN DIAMETER X 40 FT HIGH, MIN VOLUME OF 3439 CFT), AND ONE SECONDARY FLARE (APPROX 5 FT DIAMETER X 40 FT HIGH, MIN VOLUME OF 706 CFT). THE PRIMARY FLARE IS EQUIPPED WITH CONDENSATE INJECTION ATOMIZING GUNS, STACK TEMPERATURE PROBES FOR EACH FLARE, IN-LINE LFG OXYGEN ANALYZER, AND LFG FLOW METERS AT FLARE STATION.

Sector#:14 ID#:05924C PO#:900245 BEC#:11054
Fee Schedules: 48A01 48C01 94E10 94F01 94C01

EVERY PERSON WHO OWNS OR OPERATES THIS EQUIPMENT IS REQUIRED TO COMPLY WITH THE CONDITIONS LISTED BELOW AND ALL APPLICABLE REQUIREMENTS AND DISTRICT RULES, INCLUDING BUT NOT LIMITED TO RULES 2, 10, 40, 50, 51, 67.17, 59, 68, 1200.

FAILURE TO OPERATE IN COMPLIANCE IS A MISDEMEANOR SUBJECT TO CIVIL AND CRIMINAL PENALTIES.

1. NO NEW WASTE SHALL BE ACCEPTED INTO THIS LANDFILL. EXCAVATED MATERIAL FROM THE SAME LANDFILL SHALL NOT BE CONSIDERED NEW WASTE.
2. THE EQUIPMENT SHALL BE PROPERLY MAINTAINED IN GOOD WORKING CONDITION AT ALL TIMES. CALIBRATION AND MAINTENANCE RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED FOR AT LEAST THREE (3) YEARS AND BE MADE AVAILABLE TO THE DISTRICT ON REQUEST.
3. THERE SHALL BE NO LEAKS OF LANDFILL GAS FROM THE COLLECTION SYSTEM AND FLARE EQUIPMENT IN EXCESS OF 1375 PPMV (AS METHANE) EXCEPT DURING MAINTENANCE.

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NANCE, REPAIR, OR SAMPLING ACTIVITIES.

4. THERE SHALL BE NO RELEASE OF LEACHATE OR CONDENSATE FROM ANY PART OF THE LANDFILL, LANDFILL GAS COLLECTION SYSTEM, OR FLARE STATION WHICH RESULTS IN THE DISCHARGE OF ODORS, TOXIC AIR CONTAMINANTS, OR REACTIVE ORGANIC COMPOUNDS TO THE ATMOSPHERE.
5. SHOULD THE DISTRICT, SAN DIEGO COUNTY HEALTH DEPARTMENT, OR ANY HEALTH AGENCY OF THE STATE OF CALIFORNIA DETERMINE THAT AN IMMINENT, LIFE ENDANGERING THREAT TO HUMAN LIFE REQUIRING IMMEDIATE ACTION EXISTS ON SITE, THE OWNER/OPERATOR SHALL TAKE WHATEVER ACTIONS ARE DEEMED NECESSARY BY THE DISTRICT AND/OR THE HEALTH AGENCY TO PROTECT HUMAN HEALTH.
6. COLLECTED LANDFILL GAS SHALL BE INCINERATED IN THE FLARE(S) FOR A RETENTION TIME OF NOT LESS THAN 0.3 SECONDS. THE FLARE SHALL ACHIEVE A MINIMUM 98% NONMETHANE HYDROCARBON DESTRUCTION EFFICIENCY OF COLLECTED LANDFILL GAS.
7. THE INLET FLOW RATE OF LANDFILL GAS TO THE PRIMARY FLARE SHALL NOT EXCEED 4,500 SCFM. INLET FLOW RATE OF LANDFILL GAS TO THE SECONDARY FLARE SHALL NOT EXCEED 1,000 SCFM. THE COMBINED INLET FLOW RATE OF LANDFILL GAS TO BOTH FLARES SHALL NOT EXCEED 4,500 SCFM AT ANY TIME.
8. CONDENSATE INJECTION SHALL NOT EXCEED TWO (2) GALLONS PER MINUTE AT ANY TIME. CONDENSATE SHALL BE INJECTED ONLY IF ATOMIZING GUNS ARE OPERATING PROPERLY AND SUFFICIENT COMPRESSED AIR IS AVAILABLE TO ENSURE PROPER ATOMIZATION.
9. THE PERMITTEE SHALL CONTINUOUSLY MEASURE, DISPLAY AND RECORD THE LANDFILL GAS COLLECTION FLOW RATE (SCFM), EXHAUST GAS STACK TEMPERATURE (DEG F) AND LANDFILL GAS OXYGEN CONCENTRATION (% BY VOLUME) AT THE FLARE STATION. ALL EQUIPMENT SHALL BE CALIBRATED ON AT LEAST AN ANNUAL BASIS AND MAINTAINED IN GOOD OPERATING CONDITION. RECORDS OF THE LANDFILL GAS COLLECTION FLOW RATE, EXHAUST GAS STACK TEMPERATURE, LANDFILL GAS OXYGEN CONCENTRATION AND CALIBRATION DATES AND RESULTS SHALL BE MAINTAINED AT THE MAIN OFFICE OF THE SOLID WASTE DEPARTMENT AND MADE AVAILABLE FOR DISTRICT INSPECTION UPON REQUEST. IF DATA IS MAINTAINED ON ELECTRONIC MEDIA, FACILITIES SHALL BE AVAILABLE ON-SITE FOR DISTRICT VIEWING OF THE DATA.
10. THE PERMITTEE SHALL OPERATE, ADJUST, AND MAINTAIN THE GAS COLLECTION SYSTEM TO PREVENT EXCESSIVE QUANTITIES OF AIR FROM BEING DRAWN INTO THE LANDFILL. AN OXYGEN ANALYZER, DESIGNED TO BE ACCURATE TO $\pm 0.5\%$ BY VOLUME, SHALL BE INSTALLED IN THE GAS COLLECTION PIPING AT THE FLARE STATION, MAINTAINED IN GOOD WORKING CONDITION, AND CALIBRATED AT LEAST ANNUALLY. THE PERMITTEE SHALL ADJUST THE VACUUM AT EACH COLLECTION WELL

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AND FLARE BURN TIME AS NECESSARY TO PREVENT THE CONCENTRATION OF OXYGEN IN LANDFILL GAS AT THE INLINE ANALYZER FROM EXCEEDING 3.5% BY VOLUME.

11. AN AUTOMATIC SHUT-OFF DEVICE SHALL STOP THE FLOW OF LANDFILL GAS TO THE FLARE WHENEVER CONDITIONS OF FLAME-OUT, LOW STACK TEMPERATURE (<1800 DEG F) HIGH STACK TEMPERATURE (>1800 DEG F), AND EXCESSIVE VACUUM (>3.5% OXYGEN BY VOLUME IN THE HEADER PIPING AT THE FLARE STATION), EXCEPT FOR TRANSIENT CONDITIONS LASTING NOT MORE THAN 30 SECONDS OR DURING FLARE IGNITION AND STARTUP (NOT TO EXCEED 15 MINUTES). SUPPLEMENTAL FUEL (NATURAL GAS OR PROPANE) SHALL BE ADDED AS NECESSARY TO MAINTAIN THE PROPER EXHAUST GAS TEMPERATURE.
12. THE PERMITTEE SHALL INSPECT EACH OFFSITE GAS MIGRATION PROBE WITH A COMBUSTIBLE GAS INDICATOR FOR THE PRESENCE OF METHANE ON A MINIMUM QUARTERLY BASIS AND RETAIN RECORDS OF THE RESULTS OF EACH INSPECTION. METHANE CONCENTRATIONS IN ANY PROBE OF 5% OR GREATER BY VOLUME SHALL BE REPORTED TO THE DISTRICT COMPLIANCE DIVISION BY PHONE WITHIN 5 DAYS FOLLOWED BY WRITTEN WORK PLAN WITHIN 30 DAYS. INSPECTION RECORDS SHALL BE PROVIDED TO THE DISTRICT ON REQUEST.
13. THE PERMITTEE SHALL MONITOR, REPAIR, OPERATE, UPGRADE AND MAINTAIN THE LANDFILL COVER AND LANDFILL GAS COLLECTION WELLS IN ACCORDANCE WITH THE MOST RECENT DISTRICT APPROVED OPERATION AND MAINTENANCE (O&M) MANUAL PREPARED FOR THE SAN MARCOS LANDFILL. A COPY OF THE APPROVED O&M MANUAL SHALL BE MAINTAINED ON-SITE. THE PERMITTEE SHALL PERFORM INSPECTIONS OF THE LANDFILL COVER WITH A CALIBRATED INSTRUMENT CAPABLE OF DETECTING METHANE AT CONCENTRATIONS OF 10 TO 50,000 PPMV. RECORDS OF ALL INSPECTIONS AND COVER MAINTENANCE ACTIVITIES SHALL BE KEPT AT THE MAIN OFFICE OF SOLID WASTE DEPARTMENT AND PROVIDED TO THE DISTRICT UPON REQUEST. THE LANDFILL SHALL NOT BE SUBJECT TO RULE 59(D) (1) (II) (A) PROVIDED THE PERMITTEE IS FOLLOWING THE APPROVED O&M MANUAL.
14. WHENEVER LANDFILL MATERIAL IS TO BE BROUGHT TO THE SURFACE DURING THE INSTALLATION OR PREPARATION OF WELLS, PIPING OR OTHER EQUIPMENT OR WHEN LANDFILL WASTE IS TO BE EXCAVATED AND MOVED, THE PERMITTEE SHALL FIRST NOTIFY THE DISTRICT BY PHONE, FOLLOWED BY WRITTEN NOTIFICATION, AND SHALL COMPLY WITH THE MITIGATION MEASURES ISSUED BY THE DISTRICT.
15. EXCAVATED MATERIAL SHALL BE COVERED TO PREVENT PUBLIC NUISANCE AND TO MINIMIZE THE RELEASE OF ODORS, TOXIC AIR CONTAMINANTS, AND REACTIVE ORGANIC COMPOUNDS INTO THE ATMOSPHERE. LANDFILL COVER SHALL BE REPAIRED AS SOON AS POSSIBLE AFTER COMPLETION OF MAINTENANCE, REGRADING, REPAIRS AND/OR WELL INSTALLATION. MATERIAL TRANSPORTED TO OTHER DISPOSAL SITES SHALL BE COVERED TO REDUCE ODORS TO THE MAXIMUM EXTENT POSSIBLE.
16. VISIBLE EMISSIONS FROM UNPAVED ROADS SHALL NOT EXCEED 20 PERCENT OPACITY.

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AT A POINT OF 10 FEET FROM THE ROAD SURFACE AT ANY TIME. VISIBLE EMISSIONS FROM BLASTING OPERATIONS SHALL NOT EXCEED 20 PERCENT OPACITY BEYOND THE PROPERTY LINES AT ANY TIME. SUFFICIENT WATER OR FOAM SHALL BE USED TO MINIMIZE DUST EMISSIONS DURING ALL GRADING, EXCAVATION AND BLASTING OPERATIONS.

17. DURING LANDFILL CLOSURE PROCEDURES, DIRT ON PAVED ROADS SHALL BE REMOVED WITH A BROOM SWEEPER EQUIPPED WITH WATER SPRAYS FOR DUST SUPPRESSION, OR OTHER EQUIPMENT AS APPROPRIATE, NO LATER THAN THE END OF THE WORKING DAY THE DIRT WAS DEPOSITED ON THE PAVED ROAD. DIRT SPILL REMOVAL NEED NOT BE PERFORMED WHEN RAIN FALL HAS RENDERED THE DIRT VISIBLY WET.
18. EXCEPT DURING MAINTENANCE OR REPAIR, THE PERMITTEE SHALL SUBMIT AN APPLICATION AND OBTAIN WRITTEN AUTHORIZATION FROM THE DISTRICT BEFORE ALTERING ANY PORTION OF THE GAS COLLECTION OR FLARE SYSTEM, OR BEFORE INSTALLING NON-IDENTICAL PARTS IN A MANNER WHICH MAY AFFECT EMISSIONS FROM THE FACILITY.
19. IN THE EVENT THE DISTRICT DETERMINES THAT ADDITIONAL GAS COLLECTION OR CONTROL EQUIPMENT IS NECESSARY TO ENSURE COMPLIANCE WITH APPLICABLE EMISSION LIMITS OR COMPLIANCE WITH DISTRICT RULES AND REGULATIONS, THE PERMITTEE SHALL PROMPTLY SUBMIT ALL NECESSARY APPLICATIONS AND SHALL INSTALL THE SPECIFIED EQUIPMENT ON EITHER A TEMPORARY OR PERMANENT BASIS AS APPROVED BY THE DISTRICT.
20. ACCESS, FACILITIES, UTILITIES AND ANY NECESSARY SAFETY EQUIPMENT FOR SOURCE TESTING AND INSPECTION SHALL BE PROVIDED UPON REQUEST OF THE AIR POLLUTION CONTROL DISTRICT.
21. THIS AIR POLLUTION CONTROL DISTRICT PERMIT DOES NOT RELIEVE THE HOLDER FROM OBTAINING PERMITS OR AUTHORIZATIONS REQUIRED BY OTHER GOVERNMENTAL AGENCIES.